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Feb 15, 1986

DERWENT-ACC-NO: 1986-085463

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TITLE: Weather-resistant rigid multilayered pipe - includes interlayer of polypropylene resin contg. glass fibre, inorganic filler and unsatd. carboxylic acid-modified polyolefin

PRIORITY-DATA: 1984JP-0154033 (July 26, 1984)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 61032743 A	February 15, 1986		005	

INT-CL (IPC): B32B 1/08; B32B 27/20

ABSTRACTED-PUB-NO: JP61032743A

BASIC-ABSTRACT:

Multilayered pipe comprises at least 3 layers including an interlayer of polypropylene resin contg. (A) glass fibre, (B) inorganic filler, and (C) polyolefin modified with unsatd. carboxylic acid.

The surface layer pref. has weather resistance and a decorative appearance, and is made e.g. of polyethylene, ethylene-propylene copolymer (pref. ethylene content of 5-20wt.%), or their mixt., with a MFR of pref. 0.05-2 g/10 min., and contains 0.5-2.5wt.% carbon black. The innermost layer pref. has high impact strength and weldability, and is made, e.g., of ethylene-propylene block copolymer with an ethylene content of pref. 5-20wt.% and a MFR of pref. 0.1-0.8 g/10 min. The PP in the interlayer is pref. of MFR 8-20 g/10 min. for shapability and appearance. The inorganic filler is, e.g., mica or talc, having high aspect ratio and an average dia. of pref. 1.5-5 microns. The modified polyolefin is, e.g., polypropylene modified with maleic anhydride.

USE/ADVANTAGE - The multilayered pipe, adaptable for agricultural or fishery purposes, has excellent strength and rigidity, resistance to weather and weldability.